FINDINGS

CONCLUSIONS

PART

MINNESOTA OF STATE OFFICE OF ADMINISTRATIVE HEARINGS

FOR THE MINNESOTA PUBLIC UTILITIES COMMISSION

in the Matter of the Petition of Otter Tail Power Company OF FACT, for Authority to Change Its AND Schedule of Rates for Electric RECOMMENDED ORDER Utility Service in the State of Minnesota

The above-captioned matter came on for hearing in Fergus Falls before

Rich and C. Luis , Administrative Law Judge for the Off ice of Administrati

Hearings, on November 24, 1986. The hearing continued in Fergus Falls on

November 25 and 26, and in St. Paul on December 1-4, 1986.

Due to the extended scope of this proceeding, the need to afford the parties an adequate period for filing exceptions and the time within which

Commission must issue its final Order, the Findings of Fact, Conclusions and

Recommendation of the Administrative Law judge will be issued in parts.

Part 1 includes a II is sues other than Rate Design , 1986 Tax Law Effects and

Otter Tail's Conservation Program. Part I! will consider those areas and will

include a Recommended Order.

Public hearings for the purpose of receiving comments and questions from affected ratepayers were held as follows (number of public witnesses):

October 14, 1986 - Hallock (1)
October 15, 1986 - Crookston (6)
October 20, 1986 - Canby (3)
October 21, 1986 - Morris (3)
October 22, 1986 - Fergus Falls (afternoon and evening

hearings) (3)

At the six public hearings, attended by a total of approximately 125 people,

16 persons testified.

Appearances at the evidentiary hearing were as follows: Katherine $\mbox{\ensuremath{E}}$.

Sasseville, General Counsel, and Jay D. Myster, Vice President, Governmental

Re Iations and Law, Otter Tai I Power Company, 21 5 South Cascade Street , Fergus

Falls, Minnesota 56537, appeared on behalf of Otter Tail Power Company; Christopher K. Sandberg and Ann M. Se ha, Speci a! Asist ant Attorneys Gener a I,

1100 Bremer Tower, Seventh Place and Minnesota Street, St. Paul, Minnesota

55101, appeared on behalf of the Minnesota Department of Public Service; Dennis D. Ahlers, Special Assistant Attorney General, 340 Bremer Tower, Seventh Place and Minnesota Street, St. Paul , Minnesota 55101 , appeared on

behalf of the Office of Attorney General--Residential Utilities Division;

Elizabeth V. Cutter, Special Assistant Attorney General , 1100 Bremer Tower,

Seventh Place and Minnesota Street, St. Paul , Minnesota 55101 , appeared for

,he Minnesota Department of Energy and Economic Development; James D. Larson, Wurst, Pearson, Hamilton, Larson & Underwood, 1100 First Place West, minreapolis, Minnesota 55402, appeared on behalf of Superwood Corporation, AG Processing, Inc., Barrel O'Fun, Land O'Lakes, Northwood Panelboard Company, Tuffy's Pet Foods and West Central Turkeys, (collectively called Superwood, et al.) Janet F. Gonzalez, Case Marager, and Analysts Louis SicKmann and Paul Schweizer, Seventh Floor, American Building, 160 East Kellogg Boulevard, St. Paul, Minnesota 55101, for the Public Utilities Commission staff.

The record herein closed on February 12, 1987.

Not ice is hereby given t hat, pursuant to Minn . S tat. 1 4 . 61 , and the Ru I es of Practice of the Public Utiliti es Commiss ion and the Off ice of Administrative Hearings, exceptions to this Report, if any, by any party adversely affected must be filed within 20 days of the mailing date hereof with the Executive Secretary, Minnesota Publ ic Utilities Commission, 160 East Kellogg Boulevard, St. Paul, Minnesota 55101, Exceptions specific and be stated and numbered separately. Proposed Findings of Fact, Conc Ius ions and Order should be included, and copies thereof shall be served upon all parti es. If desired, a reply to excepti on s may be fi led and served wi thin ten days after the service of the exceptions to which reply is made. Oral argument before a majority of the Commiss ion wil 1 be permitted to a II parti es adversely affected by the Administrative Law Judge's recommendation who request such argument. Such request must accompany the exceptions or reply, and an original and 13 copies of each document should be filed with the Commission.

The Minnesota Public Utilities Commission will make th? final determination of the matter after the expiration of the period for filing exceptions as set forth above, or after oral argument, if such is requested and had in the matter.

Further notice is hereby given that the Commiss ion may, at its own discretion, accept or reject the Administ rat ive Law Judge's recommendation and that said recommendation has no legal effect unless et presently adopted by the Commission as its final order.

STATEMENT OF ISSUES

Whether Otter Tail Power Company should be authorized to increase its rates for electric utility service to customers in Minnesota by $\$1\ 1$,

and to collect those revenues in accordance with the rate design proposed by Otter Tail Power herein.

Based upon all of the proceedings herein, the Administrative Law Judge makes the following:

FINDINGS OF FACT

Jurisdiction and Procedural History

1. On June 26, 1986, Otter Tail Power Company (OTP, Company or Utility) filed a Petition with the Minnesota Public Utilities Commission (Commission)

for an increase in electric rates.

The Petition requested an annual

jurisdictional rate increase of \$13,831,243 (17.6 percent). The Compary also

filed a recuest for interim rates In the amount of \$12,606,922, a 16.03 percent increase.

- 2. On June 30, 1986, the Commission accepted the filing, ordered an investigation and hearing to determine the reasonableness of the proposed rates, and suspended the proposed rates until the Commission reaches a Determination as to the reasonableness of OTP's proposal, or until April 27, 1987, whichever occurs first.
- 3. On July 1, 1986, the Commission issued its Order Setting Interim Rates in this matter. The interim revenue deficiency determined by the Commission was \$11,208,682, including a 14.29 percent increase to residential

ratepayers, to be billed beginning with energy used on and after July 1, 1986. The actual annual interim increase is \$10,782,984. The lesser amount

results because OTP's rate design did not apply the authorized increase to

Controlled Service Rate and the Bulk Interruptible Rate. The Company is collecting interim rate revenues subject to possible refund if interim rates are in excess of the final rates determined by the Commission.

- 4. On July 25, 1986, the Commission issued a Notice and Orde- for Hearing directing that a contested case hearing be held to determine the reasonableness of the rate changes proposed by the Company.
- S. On August 4, 1986, a Prehearing Conference was held before the Administrative Law Judge in Minneapolis. Petitions to intervene were filed by

the Minnesota Department of Public Service (DPS), the Residential Utilities Division of the Office of Attorney General (OAG), the Minnesota Department of

Energy and Economic Development (DEED) and a consortium of Large General Service Industrial intervenors (Superwood, AG Processing, Barrell O'Fun, Land

O'Lakes, Northwood, Tuffy's, and Nest Central Turkeys, collectively referred to as Superwood, et al. (SUP)). All of the Petitions to Intervene were accepted.

- 6. On August 25, 1986, the Administrative Law Judge issued a Prehearing Order establishing procedural rules and a schedule for the filing of testimony and hearings.
- 7. On November 20, 1986, the Administrative Law Judge issued Prehearing Orders regarding questions raised by the parties on burden of proof in this proceeding. Those Orders provided:
- 1. The quantum of proof required in this case is that of proof by a preponderance of the evidence; and
 - 2. The Company, having the duty to establish that its requested

rates are just and reasonable, has the burden of establishing by a preponderance of the evidence every fact asserted to support the justness and

reasonableness of its requests; and

3. If the Company produces substantial evidence on a fact asserted to establish the justness and reasonableness of its requests, and that evidence is not refuted by cross-examination or Intervenors' direct evidence.

then the Company has proven that fact by a preponderance of the evidence; and

4. If an Intervenor introduces substantial evidence as to a relevant

factual matter not addressed in the Company's case, then the Intervenors shall

we deemed to have met a burden of production and the Company bears the burden of ultimate persuasion by a preponderance of the evidence The burden of ultimate persuasion is always on the Company.

Otter Trail Power Company

8. Otter Tail Power Company is an investor-owned electric utility headquartered in Fergus Falls, Minnesota. It has approximately 124,000 customers in Minnesota, of which approximately 92,000 are residential. kithin

Minnesota, the Utility supplies electric power to 155 communities, and the surrounding rural areas, scattered throughout a large area of western Minnesota between the Canadian border and the second tier of counties (Pipestone, Murray, Cottonwood) north of the Iowa line. This service area is large but sparsely populated, so transmission line costs are significant.

Most of the communities served by OTP are very small (the average population of towns on the Company's system is 270). Otter Tail serves territories with similar demographic characteristics in eastern North Dakota

and northeast South Dakota. Most of the Utility's power comes from lignite coal-fired generating stations, including its own Hoot Lake (North Dakota) plant and the Coyote (North Dakota) and Big Stone (South DaKota) plants it partially owns.

9. The area served by this utility is heavily dependent upon the agricultural economy. Most of the small towns served by CTP are economically based on services provided to the surrounding rural community, and do not have

other industries of appreciable size to diversify their economic bases. For

the last few years, land values in the service territory have declined, commodity prices have been depressed and many farms and farm-related enterprises have lost money or gone out of business.

10. OTP is a winter-peaking company with a substantial electric heating

load. However, the Company forecasts no peak load growth for several years.

Summary of Public- Testimony

11. The majority of the speakers at the public hearings were elected officials from small towns in the service area, who spoke for their municipalities and the situations faced by their citizenry, and small business

owners in those towns who use significant amounts of electricity (grocers, hotel and restaurant owners). Concerns were expressed by and for senior citizens and other persons on fixed incomes. The general comment was that the

requested increases in rates were too high. Letters of comment received by the Administrative Law Judge (Exhibit 107) expressed the same general concerns

as those raised by public hearing witnesses.

12. Small business persons in the towns that constitute OTP's service $% \left(1\right) =\left(1\right) \left(1$

area are already losing the business of significant numbers of persons who live in their service area but who chose to trade in the region's larger communities. Public witnesses are concerned that that problem will be exacerbated by OTP's rate hike because they already pay rates higher than those paid by their competitors in those larger communities (most of which are

served by municipal utilities or electric co-ops), which increases must be absorbed or passed on as price increases.

- 13. Several witnesses questioned OTP's rate structure, stating that the range of rate categories should change so that small demand customers could get "cheaper" power.
- 14. Several witnesses raised concern over whether the ratepayers had to pay for the Spiritwood land acquisition. They also questioned the 1a.85 percent requested rate of return on equity in a climate of declining interest rates. Others raised the issue of lower ; axes, arguing that the new

tax laws should drop the Company's revenue requirements. Some persons took issue with a 17.6 percent boost in rates (and with the interim hike of 14.29 percent) because it was much higher than current annual inflation.

15. One person questioned the appropriateness of $\ensuremath{\mathsf{OTP}}\xspace^* s$ representation by

Katherine Sasseville, a former Public Utilities Commissioner and Commission Chairperson in Minnesota. OTP President John MacFarlane pointed out to

witness that Counsel had been in private law practice for several years after

leaving the Commission before she joined the Company, and that none of Ms. Sasseville's former colleagues on the Commission have teen in office during the pendency of this proceeding.

16. The DPS sent spokespersons (Brad Moore, Luther Thompson, Richard Lancaster, William Lang) to each public hearing. these people announced that

the Department was recommending a 8.9 percent rate hike for residential customers and a 12 percent rate of return on equity.

17. Most of the witresses who spoke on the subject praised the quality of

OTP's service and acknowledged that Otter Tail service personnel were talented, involved, knowledgeable members of their communities. President MacFarlane and Vice Presidents Myster and William Glesen (Minnesota operations), along with regional managers and service personnel, attended

public hearing. Those officials briefed the public ir attendance on OTP's requests and responded to concerns raised by the persons attending.

18. Commissioner Beerhalter attended the public hearings in Hallock, Crookston, Morris and Fergus Falls. Commissioner Peterson attended in Canby.

The Commissioners briefed the public on the Commission's role in the process.

Test Year

19. The appropriate test year for determining the Company's revenue deficiency, if any, is the 12-month period from July 1, 1986 to June 30, 1987,

as filed by the Company. No party challenged the appropriateness of this test

year as representative of the future period during which rates will be in effect.

Rate Base

jurisdictional Allocation and Accumulated_Degreciation

20. The Company submitted a jurisdictional cost of service study. No party opposed the underlying cost of service study or the various factors inherent in it. OTP's originally-filed Minnesota average jurisdictional rate

base for the test year was \$186,965,996. This figure was 52 percent of the

Company's system-wide rate base for the test year.

21 By Order of July 25, 1986, the Commission directed Otter Tai I to provide information on depreciation relating to a property shift into the Minnesota Jurisdiction. OTP's jurisdictional allocation study showed that,

sirce the time of the data gathering for the last allocation study, a further

shift had occurred, based on increased system use by Minnesota customers in

relation to customers in other jurisdictions. Otter Tail Power had not shifted depreciation reserves associated with this property shift. OTP had

purchased an additional $28\ \mathrm{MW}$ increment of the Big Stone generating station in

March, 1986. The additional capacity was paid for in a cash-property transfer

transaction. The property traded as part of the purchase price was not part

of OTP's Minnesota rate base.

The Company proposed that the $\,$ determination $\,$ of $\,$ the $\,$ depreciation reserve

amount to be transferred be determined based upon the allowed depreciation

practices of the jurisdiction that received an increase in allocated property. No party opposed this method of determining the appropriate reserve

amounts for the transferred property, which resulted in an adjustment to accumulated depreciation. The rate base level finally proposed by Otter Tail

Power Company in this matter is \$177,910,503.

 $2\ 2$. DPS witness Willi am Lang made appropriate, uncontested adjustments

which include resulting al location impacts on all other rate base and operating statement items. Collectively, they reduce the originally-proposed

Minnesota rate base by \$7,994,740 and increase the total available for return

on the operating statement by \$271,702. These adjustments are found to be

reasonable and appropriate.

Recovery of Spiritwood Costs

23. During the late '70s, OTP determined that it had a need for additional future capacity. In 1979, the Company decided to build and operate

a 125 MW generating facility next to one of its customers, the Latish Malting

Company, in Spiritwood Township, near Jamestown, North Dakota. The generating

facility was to produce both electricity and steam. Otter Tail planned

begin construction in April 1983, and to have the plant operational by September 1986.

- 24. Otter Tail chose the Spiritwood site because it offered a cogeneration alternative and was determined to be the least cost available
- option due to smaller size, existing transmission plant, and its capability of
- providing a recapture of 50 MW of electric capacity by providing steam heat as $\,$
- a substitute for electricity for Latish Malting.
- 25. Beginning in 1980, OTP began to purchase the land for the Spiritwood
- plant. The Company purchased 1,460 acres of land for the $125\,$ MW plant, paying
- \$2,240 per acre (\$3,270,400) for that land.
- $2\ \mbox{6}$. In March of 1981 , OTP requested certification from the North Dakota
- Public Utilities Commission to build the Spiritwood plant. Otter Tail also
- asked for three commitments from the North Dakota Commission, namely: (1) recognition of the need for a market-to-book ratio of one; (2) allowance
- of construction work in progress; and (3) allowance of cost of service indexing. The North Dakota agency issued a certificate of need for construction for the plant, but refused to give the specified assurances OTP
- had requested.

- 27. ir the early 1980s, a declining rate of load growth caused the Company to re-evaluate its need for proceeding on the original schedule for construction of the Spiritwood plant. Company management decided in 1981 to
- delay construction at Spiritwood, and, on September 20, 1982, the Company's Board of directors voted to delay completion of the plant from 1986 to 1990.
- 28. During 1984, Latish Malting Company decided to obtain energy from another fuel source, natural gas.
- 29. In December 1984, OTP's board of directors votec to abandon the Spiritwood project. Corstruction was never commenced, the site remains empty,
- and the land is still owned by a non-utility subsidiary of OTP. As a result
- of the Company's decision to abandon the project, \$6,235,850 of total project
- costs were transferred from a construction work in progress account to a deferred rate base account.
- in question appraised. The land was appraised at \$375 per acre (\$547,500).
- 31. The presence of Latish Malting and the anticipated $\,$ recapture of its
- 50 MN usage of electricity (through recovery of that quartity of steam) was the most important reason for selecting Spiritwood as the plant site. The presence of Latish on the property adjacent to the Spiritwood land acquisition
- made Spiritwood the most economical generating alternative for OTP.
- 32. The Spiritwood land is still owned by OTP's subsidiary, and the Company has not attempted to sell it or to sell it tack to the original owners.
- 33. The Company seeks the following treatment of the Spiritwood transactions in this rate case- the Minnesota jurisdictional unamortized balance of the Spiritwood project (\$2,606,896) should be included in test year
- rate base; the related accumulated deferred income tax (ADIT) to be offset against the Spiritwood balance is \$772,945. Therefore, the net rate base effect is \$1,833,951. The Company also seeks allowance of \$1,042,759 in test
- year experses, to be reflected on the operating income statement adopted in this case as '"Spiritwood amortization".
- 34. Otter Tail Power last filed for a general rate increase in Minnesota
- in 1981 (Docket No. E-017/GR-81-315). Among the items of rate base claimed by
- the Company in that filing was construction work in progress costs for the Spiritwood project. In its June 15, 1982 Order, at pages 4-5, the Commission
- found that the expenditures for the project were properly classified as

preliminary survey and investigation charges ("PS&I"). The Commission found

that such charges might not result in construction of a plant and, due to

not be placed into the Company's rate base. The fact that the project had then been delayed three times, that a "substantial" number of permits were still needed, and that the land acquisition was not then complete were of specific concern to the Commission.

35. The expenditure of investor capital for planning and $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

anticipated plant capacity is made to provide customers with adequate and reliable service in the long run, and therefore is an expenditure which is

used and useful to ratepayers. Monies spent on planning and engineering for

the Spir i twood project were prudently spent bec ause the project's necess ity

was reasonably foreseeable in the late 1970s and early 1980s.

36. It would not be fair and reasonable to allow OTP to earn a return from its ratepayers on its Spiritwood investment. The property was never

for a public purpose by Otter Tail Power, nor is it presently useful in rendering service to the public. The monies spent in acquiring the property

were not prudent costs of acquisition. The rate case treatment sought by the

company, as specified at Finding 33, should be disallowed with respect to costs involving the acquisition of land and other expenses, except for planning and engineering.

37. Monies spent on planning and engineering prior to abandonment of the

Spiritwood project were prudently spent. Therefore, the Minnesota jurisdictiona I unamorti zed ba lance of the Sp iritwood project to be included in

test year rate base is \$1,202,753. The related ADIT to be offset against the

Spiritwood balance is \$356,616. The net rate base effect is \$846,137. The

operating statement effect is \$481,102. These figures accept as accurate OTP 's 8 . 9 percent allocation factor to nonutility (thermal energy recapture

operations. See Attachment A to Otter Tail's Initial Brief.

DISCUSSION

Minn. Stat. 216B.16, subd. 6 provides, in relevant part:

The commission . . . shall give due consideration to the pubic need for adequate, efficient, and reasonable service and to the need of the public utility for revenue sufficient to enable it to meet the cost of furnishing the service, including adequate provision for depreciation of its utility property used and useful in rendering service to the public, and to earn a fair and reasonable return upon the investment in such property. In determining the rate base upon which the utility is to be allowed to earn a fair rate of return, the commission shall give due consideration to evidence of the cost of the property when first devoted to public use, to prudent acquisition cost to the public utility less appropriate depreciation on each, to construction work in progress, to offsets in the nature of capital provided by sources other than investors, and to other expenses of a capital nature

It is recommended that rate recovery be allowed for planning and engi neering costs borne by OTP in connection with the Sp iritwood project, but

not for land acquisition and other expenses.

Planning and engineering expenses in connection with Spiritwood were prudently spent. The cost of furnishing service to the public over the long

run requires that investor capital be expended on planning and engineering for

projects which are not built. It in not possible to plan only for events and

projects which are successful $\,$. If investors are allowed to $\,$ recover $\,$ only for

projects which become operating facilities, and not for prudently planned projects, then investors will seek compensation for the added risk through higher costs of capital. It is not prudent to wait only until the need for

aiding capacity is imminent. If a utility operated in that fashion, investors would be taking an even greater risk in purchasing equity in the company. The ultimate effect would be to significantly raise costs for ratepayers through an Increased allowable rate of return.

Customers have a right to expect not only reliable service today, but the ex Dectat ion of rellable service in the f uture. Prudent planning costs are ,used and useful in rendering service to the public", whether or not a specific project goes forward to completion. Planning and engineering costs such as that spent by Otter Tail Power on the Spiritwood project are .reasonably necessary for the provision of service", and should be given "due consideration to the public need for adequate, efficient and reasonable service" wi thin the mean ing of the app I i cab le statute.

In Senior Citizens Coalition v. Minnesota Public Utilites Commission 355 N.W.2d 2 4), the Minnesota Supreme Court reminded the Commission that, in interpreting the concept of "used . . . in rendering service" it should avoid be ing overly technical and Infexible in requiring that an item must actually generate, transmit or distribute electricity, or a id in doing so, in order to be considered used and useful. 355 N.W.2d at 300.

The public interest is best served by a long-run regulatory perspective that allows re covery of cap ita I! zed planning costs as used and useful in furnishing service. If investors are denied recovery of or return on funds devoted to the public good, capita I, when required for new p Iants, wi II not be available except at very high costs. Such a result is not in the long-run interests of ratepayers. To disallow prudent planning ccsts where changes in circumstances mandate a different and lower cost alternative would disincentive to adequate planning and could preclude the use of base load plants which require planning horizons of many years. Since base load plants are ordinarily tne !owe st-cost gene rating a!ternative, ratepayers would be hurt by a Commission policy unduly jeopardizing long range planning. issuing its cert if I cate of need for the Sp I ri twood p Iant, the North Dakota Public Uti I iti es Commiss ion stated that it wou Id be I rrespons ible to f a i I to

provide for forecasted electrical power needs, and that determination is additionally persuasive in making a recommendation to allow recovery for prudently-spent planning and engineering costs. Engineering costs should be a Ilowed bec ause it was prudent to design a system which made possible the recovery of 50 MW of electric capacity to be recaptured from the steam sold to Latish. In addition, OTP followed through with acquisition of the land, which addressed one of the uncertainties cited by the 1982 Commission.

If rate base treatment for engineering and planning costs are denied, the Commission should consider continuing allowance of amortization of these costs as operating expenses.

However, the method of acquiring the land for Spiritwood utilized by the Company was not prudent, In reaching that conclusion, the Administrative Law Judge agrees with the arguments of the Department of Public Service, Office of Attorney General, and Superwood, et al. The Company should have taken more precautions in spend! ng over \$3 mi I 1 ion to purc hase the 1 460 acres of f a rml and For example, OTP for the Spiritwood site. could have, but did not, negotiate an option (for a reasonable fee) whereby the land would be returned to the or I gina I owners in c a se the p Iant was not bui It. It did get a one-year option, but that was too short. In addition, there is no evidence that the Utility attempted to get a commitment from Latish Malting not to use any alternative fuels — There is no evidence that OTP has attempted to rent the

land it purchased in anticipation of building Spiritwood, or generate income

from that land in any other way since the acquisition. As pointed out in the

i ni ti a I br i ef of the OAG , the Company's abandonment decision in 1984 was $\,$

based. in the end, on Latish's decision to use another form of energy for its

processing load. The brief cites Otter Tail's 1984 Annual Report, OTP Exhibit 8, at pages 8 and 9, for an admission by the Company that the 1984

decision to cancel the Spiritwood plant was a consequence of Latish's decision

to use natural gas. Since the purchase of the Spiritwood land was so heavily

tied to use of the steam generated by the plant to power Latish Malting's operation, it is viewed as imprudence for OTP not to have provided for recover! ng any part of the project costs from La t i sh when Latish decided not

to deploy the earl ier- antic ipated large increment of electric power.

BBig Stone Acquistition and Carrying Charges

38. In March 1986, OTP completed the purchase of an incremental $28~\mathrm{MW}$ in

the Big Stone generati ng s tation, of which it was a I ready a joint owner and

operating partner. This purchase was approved by tie Commission in Docket

No. E-017/PA-85-125. The purchase increased Otter Tail's percentage of owne-ship of Big Stone from 47.5 percent to 53.9 percent.

- 39. The terms of the final purchase were different from the terms of the proposed purchase which had been submitted to the Commission in Docket No. 85-125, in that instead of paying strictly cash for the property, the Company traded certain Federal Energy Regulatory Commission (FERC) jurisdictional transmission plant to a third party for a portion of the property. The consequence of this trade was to reduce the rate base impact of
- the acquisition.

owner.

of the

- 40. The purchase price of the Big Stone increment was \$667 per kilowatt, which exceeded the net original cost of the increment to its original
- 41. The DPS proposes exclusion of the entire acquisition adjustment from r ate base to di s a I low a return to i nvestors on the amount of the Big Stone purc has e price which was in excess of the net depreci ated or i ginal cost

plant increment to Northwestern Public Service Company, the original owner.

- 42. The Big Stone purchase was made to satisfy the requirements of Otter
- Tail's customers, and the purchase price was less costly than other alternatives. Other opportunities available to Otter Tail ranged in price

from \$1 084 per kilowatt to \$1 300 per ki Iowatt.

- 43. Otter Tail could not have offered less than \$667 per kilowatt because another party was ready, willing and able to acquire the Otter Tail increment at that price.
- 44. In Docket No. E-017/PA-85-125, the Commission found that the purchase price was reasonable and in the public interest, and that "while the current market value and price of the Big Stone increment is higher than the embedded net depreci ated cost, it is the Iowes t cost option availab I e to the Company for additional long term capacity".

 $45.\ \mbox{In acquiring the 28 MW of capacity at Big Stone, the Utility made a$

prudent purchase. The acquisition price of that purchase should be considered

toe "original cost" of that facility increment for purposes of the ${\tt Company's}$

taking depreciation thereafter and for allowing a return

46. The DPS recommends disallowance of the total Big Stone acquisition

adjustment, includ i ng a I I cap ita I i zed expenses from inc Ius ion in the rate

b a s e . It recommends a rate base reduction of \$3,401,920. (Exhibit 105,

p . 12 .)

 $47.\ \mbox{The purchase price of $667 per kilowatt for acquisition of the <math display="inline">28\ \mbox{MW}$

increment at Big Stone is reasonable. The cost of acquising that power should

be included in the rate base. The DPS recommendation to reduce rate base

costs to book value (which would remove \$2,155,075 from the test year rate

base) should be rejected.

48. The DPS proposes adjustments to remove certain capitalized components

of the acquisition adjustment. The first proposed adjus $\,$ tment is the exclusion

of Allowance for Funds used During Construction (AFDC), the capitalized costs ${\cal C}_{\rm cost}$

of money borne by investors duri $\$ ng the period between the $\$ purchase $\$ and the

effective date of rates reflecting that purchase in the ate base. DPS also

Recommended exclusion of the capitalization of depreciation applicable to the $\,$

weriod between the purchase and the effective date of new rates reflecting

inclusion of the plant increment, and property taxes for the same period.

Finally, the DPS recommended disallowance of the "NWPS Payments" component,

which reflects payments made by OTP to Northwestern Public Service to keep

open its option to purchase the plant, and to reimburse the costs of capital $\ensuremath{\mathsf{cap}}$

 ${\tt NWPS}$ was incurring by holding plant that was not in its -ate base. Superwood,

et al. also recommended exclusion from rate base of the Capitalized AFDC,

capitalized depreciation and capitalized property taxes.

 $49\,.$ Capitalization of AFDC recognizes that shareholders have invested

funds in plant for the benefit of the ratepayers for which they could

otherwise receive no return until rate base inclusion. However, since the Big

Stone increment purchase does not represent monies spent on the construction

of new generating plant, it is inappropriate to irclude $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

OTP's test year rate base. The DPS recommendation to exclude \$527,440 of

carrying charges, or allowance for funds during construction on the Big Stone

capacity for the period from the closing of the sale until the plant is included in rates charged to Otter Tail's customers should be adopted.

50. The DPS recommends $\mbox{removal}$ of \$157,044 for depreciation expense and

\$46,422\$ for associated property taxes from the rate base. OTP argues that the

capitalization of depreciation and property taxes recognize that there are

costs of ownership of the plant that are properly charged to the ratepayers

receiving the benefits of the plant. The DPS position is that capitalization

of these items for the time period between purchase and rate base inclusion

would result in ratepayers' paying for them twice. However, ratepayers do not

pay any expense during the period of capitalization, and once they begin to

pay expense there is no further capitalization. Since there is no double

recovery, it is appropriate to recognize the capitalization of depreciation $% \left(1\right) =\left(1\right) \left(1\right$

and property taxes in the rate base. The DPS recommendation to exclude $\mbox{\sc such}$

carrying charges should be rejected.

51 . The "NWPS Payments" component proposed for addition to rate base by the Company, derived from payments made by Otter Tai 1 to North Western Public

Service to keep open its option to purchase the 28 MW Increment, are appropriate for inclusion in the rate base. The DPS recommendation to exclude

\$533,606 for such payments should be rejected.

52. Where inclusion of carrying costs is allowed from the date of acquisition until the plant is included in rate base, the ratepayers are entitled to a revenue credit for sales from the plant during that interim. In

this case, OTP proposed a credit of \$17,667 for sales from the plant during tre interim period. The amount of that credit should be reduced by the appropriate increment related to non-allowance of AFDC carrying charges.

DISCUSSION

When a utility acquires a property to serve the imminently foreseeable reeds of present ratepayers at a fair market price, that acquisition should be

treated as a prudent, reasonable purchase in the public interest and the entire price paid should be included in rate base as the original cost of the acquiring utility. Under Minn. Stat. 216B.50, subd. 1, the Commission had

to consider the reasonable value of Big Stone when it approved OTP's acquisition of the $28\ \text{MW}$ increment. In addition, it had to determine that the

acqui s it ion was "cons is tent with the pub I i c i nte rest". Under the ratemaking

standards of Minn. Stat. 2166.16, subd. 6, the Commission must give due consideration to evidence of the cost of property when first devoted to public

use, to prudent acquisition cost to the public utility and to other expenses

of a capital nature.

in this case, the Administrative Law Judge is persuaded that the $\,$ Big Stone

purchase price shou Id be capita I I zed at its or I ginal cost which, in this

matter, should be viewed as the purchase price, to the extent that such treatment is reasonable.

The Commission should allow OTP's investors to receive a return on the fair market price of property acquired to meet the needs of ratepayers.

acquisition of property made to serve the imminently foreseeable needs of present ratepayers at a fair market price is a prudent, reasonable purchase in

the public interest and the price paid should be included in rate base as the original cost to the acquiring utility. Such a statutory interpretation is

the only one reasonable under the circumstances of this case.

For authority in opposition to allowance of the acquisition adjustments,

the DPS relies in part on the matter of Inter-City Gas Company, PUC Docket No. G-007/GR-83-317, where the Commission excluded an acquisition adjustment

from rate base. In Inter-City, the seller was under financial hardship, and

the DPS cites that case for authority that the acquisition adjustment here should rot be allowed because OTP could have driven the purchase price down The situations here and in Inter-City are sufficiently different so as to deny

precedential consideration to Inter-City. The seller of the Big Stone increment, NWPS, was not in financial trouble and there was another willing and able purchaser who could and did pay \$667 per kilowatt for another increment. OTP's assertion that the other buyer would have purchased the 28 MW if Otter Tail had not is reasonable. Otter Tail's right of first refusal did not amount to an unconditional right to purchase the Big Stone increment.

The case of Aure Farmers Telephone Cooperative Association, PUC Docket No. P-423-P-600/M-78-1071, is also distinguishable. The purchase involved in

that case involved intangible assets, such as franchises, in addition to physical plant. Here, the purchased asset (28 MW of electrical capacity) is subject to ordinary valuation procedures, such as comparable sales, and the

record demonstrates that the price paid was the fair market price.

Both Inter-City and Aure involve the acquisition of additional service territory. The Big Stone purchase is not that type of transaction. The distinction between operating assets purchased for the use and benefit of existing customers, and those purchased in connection with expansion of service area was made by the Iowa Supreme Curt in of ffice of Consumer Advocate v. Iowa Commerce Commission, 395 N,W.2d I (1986). In that case,

lowa Commission (as affirmed by the State Supreme Court) approved rate base inclusion of the acquisition adjustment in a case involving the purchase by interstate Power of a portion of a generating station owned by an Iowa cooperative. Inclusion in the rate base was allowed where the excess payment

resulted in some actual benefit to the consumers to justify inclusion of such

an amount in the rate base. The benefits included the fact that the purchased

capacity was needed to meet future growth and demand, the avoided costs constituted an actual benefit to ratepayers, and the price of the generating capacity was lower than the cost of construction. That situation closely parallels OTP's purchase of the Big Stone increment.

However, the Administrative Law Judge is unable to recommend inclusion of

"AFDC" monies in the rate base. Inclusion of an allowance for funds used during construction has traditionally been applied only in situations where the utility is setting aside monies for actual planned construction. The Big

Stone transaction was a purchase of power from a generating station that had already been built. AFDC inclusion would be illogical and would constitute an

undue expansion of the concept.

Ortonville Plant

53. OTP included a mothballed small generating unit at Ortonville in rate

base in i ts f i 1 i ng , with impact on Minnesota rate base of \$1 6 , 597 . The

Company reasoned that keeping the plant in a condition so that it could be brought back to service in a relatively short period of time, if required, was

- a justified expenditure and a better planning decision than to abandon the plant.
- $54.\,$ Since the plant is not providing service, the DPS recommends exclusion of monies spent to keep it "mothballed". However, the DPS agrees

that OTP investors are entitled to recover their investment in the plant through depreciation, even if they are not entitled to earn a return on it. OTP agreed to the DPS recommendation. The rate base should be reduced by

 $1\ \mbox{6}$, $5\ \mbox{9}\ \mbox{7}$. The Company made that adjustment in its final rate base proposal.

Reimbursable Construction Work In Progress (CWIP)

- 55, The Utility requested the amount of \$30,622 in reimbursable construction work in progress for work done to relocate facilities for highway relocations and other reimbursable projects. The OAG recommended an adjustment to remove that amount because OTP will recover those costs from the parties requiring the relocation.
- 56. The Company has accepted the adjustment recommended by the OAG. The \$30,622 in question has been removed from its final proposal.

Customer Deposits

- 5 7 . Otter Tail included \$366,728 in customer deposits in test year rate base. This money represents advance payments from customers required to guarantee payment of bills. OTP pays the customer who advances the deposit annual irterest at the rate of six percent, as required by the Commission. The Company does not deduct the \$366,728 in average test year customer deposits from rate base nor does it claim interest expense for ratemaking purposes.
- 58. The DPS recommends removal of the \$366,728 in question from rate base be cause that money represents non investor-supplied capital on which OTP cou Id then earr its allowed rate of return. The DAG agrees with the DPS recommendation, but also recommends that the cost of service be increased for interest expense of \$22,004 (six percent of \$366,728).
 - 59. The adjustments recommended by the DAG should be adopted.

DISCUSSION

OTP argues t hat the present treatmen t of cus tome r de posi ts has the same effect as the proposal by the OAG. It is reasoned that the Company is paying out in i nte rest essentially what it is earn i ng on the i nvestment of the deposi ts . While that may be true under present c ircumstances, interest rates could fluctuate, while the six percent payout to customers for tying up their de pos i t money would not change unless the Commission charges the requirement. inequi ties could result. In addition, inclusion \$366,728 in rate base a! lows OTP's investors to earn a potential return significantly higher than six percent. For these reasons, the adjustments recommended by the Attorney General should be made.

Customer Advances

- 60. Customer advances are amounts paid by customers to OTP for an extension of service. The Company included \$14,725 for customer advances in test year rate base.
- 61. The Utility has the use of the customer advanced funds and can use the funds to invest in plant. The DAG argues that this money should be

removed from rate base or OTP will earn a return a ratepayer-supplied funds.

62. Otter Tail agreed that the adjustment proposed by the DAG was reasonable and accepted the adjustment to its rate base, removing the \$14,725 in question from its final proposal. Such treatment of customer advances is reasonable and should be adopted.

Cash Working Capital

- 6 3 . OTP ini tially proposed incl udi ng cash worki ng capita I at a zero level in thi s case , relyi ng on the use of a FERC proposed rule whi ch makes that suggestion. The Company also submitted a lead-lag method cash working capital calculation as a requirement for the Commission's analysis of interim rates.
- 64. The DPS recommended usage of a lead-lag method to account for cash working capital. The DAG, which originally recommended a balance sheet

anproach, later endorsed the DPS recommendatior. DPS witness William Lang test! f led t hat adj ustments to the f i led lead- lag study to ref lect ef fects on

cast working capital for DPS proposals, which included compensating and minimum bank balances in the rate base, were reasonable.

65. OTP agreed with the final adjustments suggested by Mr. Lang, which adjustments are consistent with including the specific items allowed by the Commission in the last Otter Tail Power general rate case. All parties have agreed to the use of the lead-lag method of determining cash working capital, and it should be adopted, with appropriate adjustments to reflect the effects on the cash working capital requirement of the Commission's final determination on other issues. OTP has included the presently-adjusted cash working capital amount in its final rate base proposal.

Accumulated Deferred Income Tax (ADIT) Reserve

- 66. More taxes were collected from OTP's ratepayers and deferred at the pre-1979 48 percent rate than will be due under the current 46 percent tax rate (the federal income tax rate for corporations decreased from 48 percent to 46 percent in 1979).
- 67. The Company proposes to return the excess accumulated deferred income tax over the life of assets subject to depreciation. The OAG proposes that the accumul ated tax reserves be returned over a two-year period , requi ring a reduction in the accrued deferred tax reserves (and a corresponding decrease in income tax expense) of \$167,300 for this test year. Tie effect on rate base would be an increase of \$83,650.
- 68. A two-year amortization period will more rearly return the funds to the ratepayers who provided the funds than would returning the excess to future ratepayers over the lifetime of the related assets. The OAG's proposal is appropriate and should be adopted.

DISCUSSION

in Central Telephone Company v. Minnesota Public Utilities Commission, 356
N.W.2d 696 (Minn. App. 1984), the Court of Appeals upheld a Commission Order adopting a short-term period over which accumulated deferred taxes should be returned to ratepayers. The utility's argument that the excess should be returned over the life of the related assets was rejected. Treatment of these

monies in the fashion suggested by the Attorney General would also be consistent with the Commission's treatment of the same issue in Northern States Power Company (Gas), PUC Docket Nos. G-002/GR-86-160, G-002/M-86-165, issued on January 27, 1987.

Rate Base Summary

69. Otter Tail proposed a test year rate base of \$177,910,503. That amount must te adjusted as follows to provide an appropriate test year rate base of \$176,172,171, calculated as follows:

OTP proposed	\$ 177,910,503
Spiritwood	(927,814)
AFDC-Big Stone	(527,440)
Customer Deposits	(366,728)
Deferred Tax Reserves	83,650_
Net Rate Base	\$ 176,172,171

Operating Income Statement

Research and Development Expenditures

70. Otter Tall included in its budget and in its forecast test year amounts for various research and development expenditures, including \$174,241

that had been budgeted for the Electri c Power Research Institute (EPRI

71. As of the time of the hearing, OTP had not decided whether to actually make the budgeted EPRI contribution. The Company presented evidence

as to what might happen to the monies if no EPRI contribution is made--that the money wi II be spent for i n-house research on projects such as grain dryer

development and/or allocated to research programs the Company already supports

at educational institutions in its service area.

72. At the time of filing its initial brief in this case, the Company filed an Affidavit from President John MacFarlane, which affidavit stated that

the Company had finally determined not to make a contribution to EPRI in 1986

or 1987. Rather, the \$174,241 originally allocated for EPRI would be allocated among the research and development in-house and university programs

mentioned on the hearing record. At the time of filing its Reply Brief, the

DPS also filed a Motion to Strike MacFarlane's Affidavit. OTP filed its Reply

to that Motion on February 12, 1987.

 $7\ 3$. The \$174,241 originally allocated for EPRI contribution should not be included in research and development expenditures during the test year.

DISCUSSION

The \$174,241 allocated for EPRI in the original filing should not be allowed as test year expenditure because the record does not contain substantial evidence establishing where the money will be spent. The general

statement that the monies will be allocated among "research and development in-house and university programs" is too vague to support an allowance of those expenditures to increase the revenue deficiency.

The above reasoning was used as a basis for recommended denial of originally-proposed EPRI expenditures because the Administrative Law Judge has

decided to deny the DPS Motion to strike President MacFarlane's Affidavit. Testimony was allowed at the hearing for the Company to explain why it might decide (as it eventually did) not to contribute to EPRI. The Company also had

an opportunity to explain what would be done if the money was not spent as originally allocated. It is the Judge's opinion that the Commission should

know whether or not the Company finally decided to make the EPRI contribution, and the Affidavit supplies that final bit of information. Therefore, the DPS
Motion has been DENIED.

The Pension Fund

74. The issue of funding the pension rights of utility employees was raised in this matter by Superwood, et al. SUP recommends elimination of OTP's pension credit balance of \$847,534, an amount that represents approximately one-half of a year's contribution by the Company to the employee pension fund. This money was accumulated over a ten-year period, and

- 16-

represents about five percent of ten years' average contribution. Company

considers the accumulated monies to be a prudent "cushion" to provide for unknown variations in the required contribution, such as gains or losses from stock and bond market fluctuations.

7 5 . Superwood, et al. recommend removal from rate case expenses of \$282 , 51 1 , wh i ch is one-th i rd of the above-noted " cush ion' . addition, SUP recommends a reduct ion of \$83 , 466 , to rep resent the di f f erence between OTP' s finally-estimated test year expense (\$1,671,000) for pension funding and the mi n i mum fundi ng requi red by the Employee Retirement Secur ity Act (ER ISA) . Finally, SUP recommends an additional removal from allowed expenses of one-third of any credit balance in excess of \$847,534 that the

accrued in

OTP's budgeted test year amount for pens ion contr i butions is reasonable. The dedication of a portion of pension contributions as а .cushion" to provide for unknown vari ations in the requi red contri bution is prudent. A soundly-funded pension fund helps stabilize OTP's work force and is a benefit to ratepayers. Tne recommendation of Superwood, et al. should not be adopted.

account between December 31, 1985 and December 31, 1986.

DISCUSSION

The large i ndustri a I Intervenors allege that OTP' s pension pi overfunded by nearly \$13 million. They originally proposed that pension e xpense con tr i out! on s shou Id be suspended. This propos a I was mod if ied af ter OTP argued t hat it wou Id be imposs ibl e to suspend contri butions to the fund for a period of years and concurrently satisfy legal minimum funding standards. SUP's f ina I recommendations are a I 1 related to a phasing out of OTP's five percent "cushion".

Superwood's proposal would reduce to the bare legal minimum the annual expense allowable in the test year for pension contributions, and even though that minimum legal contribution can be expected to increase in future years wages and benefits increase, the allowable expense would remain static for ratemaking purposes throughout the period in which rates are in effect. I n the event of an unforeseen decrease in the asset value of the fund, the law

would require increased contributions, for which no available "cushion" would ex i s t .

The p I an's assets cons ist of accumulated contri butions p Ius the earn ings on those contributions. The projected rate of earnings is included in the various methods of funding allowable under ERISA. The rate of growth is assumed to continue over the long term at a consistent rate, but it is entirely possib I e that, in the short run, the rate of growth wi I 1 vary and could be low or, perhaps, even negative it some periods.

OTP has demonstrated how-conditions can fluctuate and, therefore, deployment of a "cushion" of the type currently in its pension plan is During 1985, assets in the OTP plan earned approximately necessary. \$6.5 million more than was anticipated in the actuarial asumption (approximately one-half of SUP's alleged "overfunding"). This actuarial gain caused a reduction in the unfunded liability to be amortized. The effect of the gain was to reduce the 1986 required contribution by \$542,000. However, if the fund had experienced a \$6.5 million "loss" below the actuarial

assumptions, that event would have caused an increase in the same amount in

the unfunded liability. if OTP were to make only the minimum contribution

allowable in 1986 (\$641,000), the minimum allowable contribution In the

following year, under the above scenario, would be \$1.74 million. One purpose

of the "cushion" is to be ab le to make requi red contri but! on s when cond itions

fluctuate in such a fashion. Therefore, it is prudent to retain the five

percent "cushion", and the Superwood recommendation should not be adopted.

Marketing and Advertising Expenses

- 77. OTP's marketing plans include the marketing and advertising of dual fuel, dealer aid and appliance rebate programs, ground water heat pumps, and thermal storage systems.
- 78. Minn. Stat. 216B.16, subd. 8 requires the Commission to disapprove portions of any rate making a direct or indirect allowance for expenses incurred by the Utility to provide public advertisements which are designed primarily to promote consumption of electricity.
- 7 9 . The Company's advertising for air conditioning and mories spent on dealer aid advertising are designed primarily to promote consumption of elecirloity. The \$58,914 in advertising expense related to air conditioning advertise rg and \$4,997 relating to dealer aid advertising (\$63,911 total), proposed as allowed expenses in this rate case, should be disallowed.
- 80. Marketing expenses on appliance rebate programs (for water heaters, high ef f I ciency a I r conditioners , dehumi di fiers , c lothes dryers, electri c ranges and portable electric heaters) are related to advertising that is designed primarily to promote the consumption of electricity. These marketing ex pen se s . whi ch total a proposed \$31 , 950 for Inc Iusion as ex pen se s during the test year, should be disallowed.
- 81. The Company's dual fuel advertising and advertising for ground water heat pumps are not designed primarily to promote the consumption of electricity. The advertising expenses proposed to be included in the test

year expenses relating to ground water heat pumps and dual fuel should be a II owed.

- 82. Proposed expenses for the marketing of thermal storage systems and ground water heat pumps are not re I ated to advert is I ng t hat is designed pri mar ily to promote consumpti on of electri c ity. The marketing expenses proposed by OTP for inclusion in test year expenses for thermal storage systems and ground water heat pumps should be allowed.
- 83. Dual fuel advertising is not designed primarily to promote consumption of electricity. Therefore, marketing expensen proposed for inclusion as test year expenses relating to commercial and residential dual fuel should be allowed.
- 84. As a result of Findings 77-83, OTP's expenses for advertising and marketing for the test year should be reduced by \$95,861.

DISCUSSION

With respect to the consideration of advertising expenses, the Administrative Law Judge has examined all of OTP's ads placed in this record

with a view to asse s s i ng *hethe r they are "des i gnet pr i mar i I y to promote the consumption of (electricity)". The dual fuel advertising primarily stresses how persons wno install dua I f ue I systems can save money by us i ng e lectri c ity only during off peak hours. Intervenors DPS and DEED urge that, because only 74,000 of OTP's 92,000 residential customers space-heat with electricity, that the advertising must be aimed at converting to electric heat persons who heat with alternative fuel (primarily oil). DEED also urges denial of dual fuel program expenditures because it expects oil to remain cheaper than electricity for space heating purposes during the time period anticipated to be covered by the new rates.

The test on whe the r market i ng expenses shou Id be a!!owed is ${\tt determined} \ , \ {\tt in}$ great part, by whether the marketed system is cost-effective. Evidence presented by OTP shows the dual fuel program to be effective, with а benefit/cost ratio of 1.47 to I and a payback period of 3.8years. Dual fuel programs are designed to reduce and control peak load growth on OTP's winter peaking system. While it may be true that OTP's revenues wil rise if a space-heating customer converts from oil only, the ads ir question merely suggest that dua 1- f ue I systems save on e Iectri c ity
The appeal is all-electri c space-heati ng customers to cons! der dual- f ue I to avoid e Iectri c ity use du r i ng peak times, or for new homebui Ider s to cons i der the system in order to save on electricity. It is not OTP's duty to inform the public that oil is cheaper.

The Intervenors recommended the disallowance of \$1,800 ground water heat pumps. The only ground water heat pump ad in the record stresses energy savings and is not designed primarily to promote consumption of electricity. With respect to thermal storage marketing (no recommendation was made by the Intervenors to reduce related advert is i ng expenses), the expense should be allowed because the benefit/cost ratio of the thermal storage program is in excess of 10 to 1. Ground water heat pump marketi ng expenses shou Id be a Ilowed because such devi ces have a cost benef it ratio of 5.5 to 1. DEED challenges the cost effectiveness of the ground water heat program. However, its analysis was based on 1983 data about ground water

heat pump models th at are not the same as mode Is used in $\mbox{OTP'}$ s service are a.

In addition, DEED's calculations were based on the Company's regular

residential rate, not on the lower, dual fuel rate,

Otter Tail Power Company has established by a preponderance of the evidence that the expense items recommended for inclusion at Findings 79-86 should be allowed during the test year.

Unbilled Revenues

- 85. OTP reads its customers' meters on a cycle basis and records the revenues from that read i ng in the month in whi ch the meters are read, not the month that the related service is provided. Expenses, however, are recorded in the month that related service is provided. As a result, at any one point in time, a mismatch exists between comparable revenues and expenses.
- 86. The difference in the unbilled revenues that existed at the beginning of the test year and those that wil I exist at the end of the test year is \$190,000. See OAG Exhibit 67, 21.
- 87. This mismatch of test year expenses and test year income results in test year revenues that are understated for this test year.

- 88. Depending on sales volumes, the recognition of unbilled revenue during the test year may have a positive or negative effect on the Company's revenue requirements.
- 89. Total unbilled revenues at the beginning of the test year, July 1, 1986, were \$3,398,553 for the Minnesota jurisdiction. Such revenues have never been reflected in the ratemaking process.
- 90. Recognition of the effect of accumulated unbilled revenues would result in a mismatching of revenues and expenses for the test year.
- 91. No adjustment to test year revenues or deferred taxes is appropriate to recognize the effect of unbilled revenues in prior years, or to recognize the difference between unbi I led revenues at the beg inni ng and end of the test $y \in a$ r

DISCUSSION

The proposed adjustments for unbilled revenues consist of two distinct The first issue is whether the unbilled elements and issues. revenues that exist at the beginning of the test year should be amortized. The second i s whether the change i n unbilled revenues dur i ng the test year should be recognized in test year revenues. I n Docke t No. E-002 / GR-8 S- 558 (the 1 a s t NSPe! ectri c rate case) , the Commiss ion decided not to al low the adjustments proposed in either category by the OAG. However, in NSP Gas, Docket Nos. G-002/GR-86-180, G-002/M-86-165 (1/27/87), the Commission accepted an adjustment for the "change in margins" during the test year (the between unbilled revenues at the beginning and at the end of test year).

In NSP Gas, the Commission found it appropriate to adjust test year revenues for the change i n margins associated wi th the begi nni ng and test year unbilled revenues. It reasoned that the adjustment would theoretically match test year margins with the gas sales that will actually occur in the test year. In theory, adjusting for the change in margins during the test year is the same as eliminating the margins related to unbilled revenues at the beginning of the test year for sales that occur prior to the test year, and including the margins related to unbilled revenues at the end

of the test year for sales that occurred during the test year.

"synchronizing" the margins with other test year operating expenses and taxes, $% \left(\frac{1}{2}\right) =0$

and wi th the test year rate base $\,$, the Commission decreased $\,$ operating revenue $\,$,

federal and state income taxes and test year operating income by appropriately-computed amounts. In this case, however, the Administrative Law

Judge is not persuaded that OAG wi tness Nel son's proposed margin of \$91 , 761 is

appropriate. Given the uncertain economic history of OTP's service area, and

looki ng at recent trends , i t $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

between unbilled revenues at the end of this test year and those at the beginning would be even a positive number. Given the speculation inherent in

attempti $\ensuremath{\text{ng}}$ to $\ensuremath{\text{predict}}$ a margi $\ensuremath{\text{n}}$ for $\ensuremath{\text{OTP}}$, i t i s $\ensuremath{\text{recommended}}$ that the Commission

return to its reasoning on this issue as stated in NSP Electric.

In that

case, the Commission found that it was inappropriate to make an adjustment for $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

margin because the better matching of revenues and expenses was offset by the $\,$

loss of accuracy through the use of estimates.

Interest Synchronization

its ADITC than does it ratepayers.

- 92. OTP has budgeted an interest deduction for tax purposes of 6,412,359. Exhibit 27, Schedule C-3, p. 6 of 8. This calculation does not
- include in the rate base the Accumulated Deferred Investment Tax Credit (AD! ${\sf TC}$) .
- 33. Because interest is tax deductible, the failure to consider ADITC inte-est expense increases the Utility's tax liabilities which it seeks to recover in rates. However, in normalizing its tax credits, OTP offsets its otherwise increased tax liability. As a result, OTP benefits more fully from
- 94 To equalize the benefits of the ADITC O
- 94. To equalize the benefits of the ADITC, OTP's weighted cost of debt should be multiplied by rate base, including ADITC, as recommended by the OAG. As a result of Finding No. 93 OTP's test year operating income should be increased by \$316,368. See initial Brief of Otter Tail Power, p. 64. This
- figure will be adjusted slightly if the weighted cost of debt and rate base finally determined by the Commission differ from the figures assumed in the Br i ef .

DISCUSSION

The issue considered in Findings 92-94 is commonly referred to as interest

synchronization. On May 22, 1986, the internal Revenue Service published a final regulation on this subject in the Federal Register, Vol. 51, No. 99, pp. 18775-18778. In its explanation of the adopted regulation (26 C.F.R. Part 1), the !RS states, in part:

In addition, the Service believed that synchronization of interest under section 46(f)(2) would result in an appropriate accounting for the credit in establishing rates .

The Administrative Law Judge interprets the above-queted Federal Register

language to mean that OTP will not lose its eligibility for ADITC if interest

synchronization is adopted as the appropriate way of allowing ratepayers to share in benefits derived from that credit. The Commission has recently adopted this position in NSP Electric, Docket No. E-002/GR-85-558, and NSP Gas, Docket Nos. G-002/GR-86-010, G-002/M-86-165.

Miscellaneous

- 95. OTP's proposed rate case expenses of \$110,000 have not been challenged. The Company has agreed to the OAG's proposal to amortize rate case expenses over two years. The effect is to reduce test year expenses by
- \$55,000 and increase rate base by \$55,000. Those adjustments were accounted
- for in the Company's final proposed rate base and operating income

statements. All parties agree that OTP's sales and revenue forecasts for the test year are reasonable. The figures utilized in those forecasts should be used by the Commission in its computations.

96. The correct Minnesota jurisdictional retail sales forecast (based on rates prior to interim rates) to be used in this record is \$78,627,000 as fixed and shown in the schedules of OTP witness John Erickson. See Exhibi t 27.

Operating Income Summary

97. Otter Tail Power proposed test year operating expenses of \$65,440,512. This amount mu s t be adjusted , as fo I lows, to determine p rope r

test year operating expenses:

OTP proposed	\$ 65,440,512
Spiritwood	(561,657)
Customer Deposits	22,004
Research and Development - EPRI	(174,241)
Advertising and Marketing	(95,861)
Total Operating Expenses	\$ 64,630,757

98. OtterTail's proposed test year total income tax expenses of \$7,873,344. This amount must be adjusted as follows to determine proper test year income tax expenses of:

OTP proposed	\$	7,873,344
Interest Synchronization	(316,000)
Deferred Tax Reserves	(167,300)
Total income Tax Expense	\$- 7.3	390,044

9 9 . Ot ter Tail Power's appropriate test year operati ng income is \$14,181,753, calculated as follows:

Total Operating Revenue	\$	86,286,368
Total Operating Expenses		64,630,757
Net Before Taxes		21,655,611
Total Income Tax Expense		7,390,044
Net Operating Income		14,265,567
Allowance for Construction Funds		83,814
Test Year Operating Income	\$1	4,181,753

Return on Capjtal

Capital Structure

100. Cap ita I structure is a f inancial concept whi ch repre sents the sources of capital to a company. The major sources are debt and equity. The inquiry is to determ i ne what ba lance between debt and equity is appropri ate for ratemaking purposes as being in the best interests of both the Company and its ratepayers.

101 . The appropri ate mixture of c apita I is a f unction of the interacti on between the perceived business and financial risks of the Company. The greater the business risk, the higher the proportion of common equity that is appropriate in the capital structure.

102. It is appropriate, for the purposes of this proceeding, to use the actu a I cap it a I structure of Otter Tail Power Company if t hat mixture of debt and equity is reasonable. The actual average test year capital structure of Otter Tail Power contains an equity ratio of 45.79 percent of common equity.

OTP originally proposed an end of test year capital structure (46.93 percent common equity), but Iate r endorsed the use of an ave rage test year capital structure so as to be consistent with the use of average test year rate base.

- 103. DPS and OAG support the Company's 45.79 percent common equity ratio as reasonable. Superwood, et al. propose a common equity ratio of 40 percent.
- 104. OTP's common equity ratio of 45.79 percent shou'd be allowed. That

evel of common equity is appropriate to maintain investor confidence, maintain current credit Quality and to avoid upward pressure on the Company's

cost of capital. Therefore, approval of that ratio is reasonable.

105. The appropriate capital structure for Otter Tall Power Company is as fol lows:

Long Term Debt	44.041
Preferred Stock	10.17
Common Equity	45.79
	100.00%

DISCUSSION

The DPS and OAG do not argue that a 45.79 percent equity ratio would be unreasonably high. In Docket No. E-002/GR-85-558, the Commission granted

a 45 percent common equity ratio for Northern States Power Company, finding

that the 45 percent balanced the interests of ratepayers with fairness to NSP.

is a larger company than OTP, and has lower risks. The Commission, on January 27, 1987, again approved a 45 percent equity ratio for NSP. See NSP

Gas, Docket Nos. G-002/GR-86-160, G-002/M-86-165.

During the recent years of extremely high interest $\$ rates, $\$ ratepayers are

not well served by low equity ratios because new capital has to be financed at

higher rates. Financial rating agencies have raised the proportion of equity

required for A and AA ratings (Standard & Poor's rates OTP's bonds as A+).

SUP argues that the cost of capital at the present structure is too high.

However, if the equity ratio were lower and the debt ratio higher, OTP would

have to finance with debt during periods of high debt costs, $% \left(1\right) =\left(1\right) +\left(1\right$

cost of debt would rise.

NSP

OTP's test year average actual equity ratio has not been shown to be unreasonably high, and given the Company's smaller size, it is comparable to

industry standards for A or AA rated companies. The record shows that Otter

Tail is riskier than the groups of "comparable" or "benchmark" companies to which it was compared by OTP witness Hass and DPS witness Thompson.

 $\mbox{\sc SUP}$ witness Dahlen maintains that the Utility should be $\mbox{\sc granted}$ no $\mbox{\sc more}$

common equity ratio than necessary to maintain a AA bond rating. The evidence

shows that a 40 percent equity ratio would not be sufficient to maintain such

a rating, that OTP is not regarded as financially strong enough to have obtained such a rating, and that a 45.79 percent equity ratio is not in excess

of what is necessary to obtain such a rating.

Cost of Debt and Preferred Equity

106. The Company's unchallenged and reasonable cost of debt $\,$ and $\,$ cost of

preferred equity (derived by using the test year average capital structure)

should be adopted as reasonable by the Commission. The weighted cost of debt

is 8.7 percent. The weighted cost of preferred equity is 7.16 percent.

Cost of Common Equity

107. The cost of common equity is the return on investment required by an $\,$

investor in order to induce the purchase of an equity investment in a particular corporation. The discounted cash flow (DCF) method is the appropriate method for determining OTP's cost of equity. DCF analysis determines the cost of equity by combining investors' expectations in the dividend yield and investors' expectations in growth. This method is a market-oriented opportunity cost approach which views the relationship between

cost of equity, the investors' income expectations and the market price in a theoretically sound and organized manner.

- 108. Originally, OTP requested a return on common equity of 14.85 percent--the same return granted to it by the Commission in its last case, decided June 15, 1982. The Company's final proposed recommended rate of
- return is 13.0 percent. The OTP witness who used the DCF approach in arriving
- at his recommendation, Dr. Jerome Hass, found that the appropriate return on equity for Otter Tail is between 12.0 and 12.6 percent.
- 109. Derick 0. Dahlen, testifying on behalf of Superwood, et al., recommended a return on common equity of 11.43 percent based on the FERC generic rate of return. However, SUP's final recommendation for rate of return on common equity is 12.0 percent.
- 110- Dr. Luther Thompson, the DPS witness who employed a DCF methodology in arriving at his recommendation, recommends a rate of return of 12.0 percent
- on common equity. The OAG and DPS join in supporting Dr. Thompson's recommendation.
- 111, Two other witnesses on rate of return, Senior Vice President (Finance) Dennis Emmen and Consultant Daniel Rudakas, presented evidence on behalf of OTP. Both recommended an allowed rate of return on common equity greater than that shown by DCF analysis. These witnesses emphasized the greater risks involved for investors in Otter Tail Power compared to the "comparable" utilities used in the DCF analysis computations. Mr. Rudakas also postulated that investors perceive OTP to be a riskier investment than traditional analysis would demonstrate because the potential investors also have an expectation that smaller utilities may be taken over by larger ones, which encourages investors to value the stock of the alleged takeover candidates at a premium. Mr. Emmen recommended a 14.85 percent allowance—the
- same as OTP received in its last general rate case. OTP's recommendation of
- 13 percent is a compromise between the 12.0-12.6 percent recommendations employing traditional DCF analysis and the "total growth" approaches recommended by Emmen and Rudakas.
- 112. The DCF model has two components: the Company's current dividend yield (dividend rate divided by the stock price)--often referred to as "y" and
- the growth rate (the expected growth in dividends), referred to as The cost of common equity in a DCF analysis is the sum of "y" and "g".

113. The annual growth rate expected by investors is estimated by evaluating historic rates of growth in the Company's divicends, earnings and book value, and by evaluating current information that car reasonably expected to affect historic growth rates.

114. Dr. Thompson used a comparable group of electric companies to apply

tne DCF methodology. He concluded that the appropriate dividend yield was in

a range of 7-8 percent. Thompson reviewed a range of data, beginning with a

current estimate of "y" based on the last 20 stock trading days prior to the

[-eparation of his testimony, ending September 19, 1986. He looked at the most recent quarter of the year, which was the second quarter of 1986. He looked at the most recent one-year period, which *as the third quarter of 1985

through the second quarter of 1986. He also looked at the most recent two-year period, which was the third quarter of 1984 through the second quarter of 1986. By using these four measures of dividend yield, Dr. Thompson

Balanced the need for a reflection of the current condit ons and investor expectations over a regulatory period.

115. Dr. Thompson calculated a growth rate of three percent to four percent, and used the upper estimate of four percent for his analysis. For

"g" , he looked at growth r ate s in dividends per s hare, in earn ings per s

end in book value per share. He placed more value on the more

stable growth rates. The time periods over which growth rates were reviewed were

five-year period and a ten-year period. Dr Thompson's Intent in reviewing

!hose two periods was to balance the recent expect at ions of investor s aga inst

the tempering effect of long-term stability, producing an average or normalized growth rate.

116. Using OTP data, Dr. Thompson calculated a "y" of seven to eight percent, and a "g" of three to four percent He concluded that a 12 percent

Using comparable group data, Thompson return was reasonable, calculated a "y"

of seven to seven and one-half percent, and a "g" of three to five percent.

This produced a range of rate of return of IO to 12 . 5 pet c en t .

117. Dr. Thompson performed his DCF analysis on the Comparable gr oup in

order to verify his Otter Tail calculations. Considering the 12 percent rate

of return on common equity der ived from Otter Tai I d a ta and the comparab

group range of 10 percent to 12.5 percent, Dr. Thompson found that 7 2 .0 percent was a reasonab I e upper 1 i mi t on the estimated cost of

common equity.

118. OTP witness Dr. Jerome Hass also used the DCF methodology to

calculate the appropriate cost of common equity for Otter Tail.

H as s s

recommended a rate of return on common equity of either 12 percent (using six months of data for the yield component) or 12.6 percent (using 12 months of yield data).

- 119. Dr. Hass calculated the six-month dividend yield at 6.66 percent and a twelve-month yield of 7.41 percent.
- $120.\ \mbox{OTP}$ witness Hass's recommendation for the growth factor is between four and five percent.
- 121. The group of companies chosen by Dr. Hass as "comparable" to OTP differs, in some respects, from that chosen by Dr. Thompson. The group chosen by Thompson contains several companies that are larger than OTP. Since Hass believes that risk tends to be directly related to size, he finds OTP to be more risky than most of the companies in Dr. Thompson's sample. He, therefore, recommends a somewhat larger cost of common equity than the average for the group of companies chosen by Dr. Thompson.

122, Hass's original recommendation was drafted in March of 1986. Since the median dividend yield for the electric utility industry fell by approximately 60 basis points between the filing of his original testimony and

his rebuttal testimony, Hass revised his calculations on rebuttal and finally recommended the Commission adopt a "y" figure approximately one percent less than he had originally recommended (using 12 months of yield data).

- 123. Since five and ten-year growth rates are used with regularity in the $\,$
- financial community, a consideration of the historical five and ten-year growth rates in the growth factors selected for measurement is appropriate.
- 124. The appropriate dividend yield rate ("y") for use in this proceeding to determine OTP's cost of equity is 7.41 percent.
- 125. The appropriate growth rate ("g") for use in determining OTP's cost of equity is five percent.
- 126. As a consequence of Findings 124 and 125, the appropriate cost of equity of Otter Tail Power Company for this rate case is the sum of "y" and .g", or 12.41 percent.

DISCUSSION

Determining the allowed rate of return on common equity for Otter Tail is the most judgmental portion of the entire ratemaking process. Northwestern Bell Telephone Company v. State, 299 Minn. 1, 216 N.W.2d 841, 846 (1974). The

legal standards governing the exercise of the reasonable judgment necessary for determining the cost of equity in this proceeding were enunciated by the United States Supreme Court in Federal Power Commission_ v. Hope
Natural Gas

Co., 320 U.S. 591 (1944), and Bluefield Waterworks-and improvements Co. v. Public Service Commission of West Virginia, 262 U.S. 679 (1923). The general principles governing the determination of a reasonable rate of return on equity for a public utility as derived from Hope, supra, and Bluefield, supra.

include the concepts that the allowed rate of return must be comparable to that earned on investments and business undertakings that are unregulated but attended by similar risks; the return must be sufficient to enable the utility

to maintain its financial integrity; and the return must be sufficient to attract new capital on reasonable terms. Both the Minnespta Public Utilities Commission and the Minnesota courts have adopted the rate of return principles

enunciated by the United States Supreme Court in Hope and Bluefield.

The Commission, in determining a fair rate of return on equity, may balance consumer and investor interests. Permian Basin Rate Cases, 390 U.S. 747, 791 (1967). The Commission may not, however, allow less than a reasonable

rate of return on common equity in order to accommodate consumer interests. Bluefield, supra; Hibbing_ Taconite Co. v. Public Service Commission, 302 N.W.2d 5 (Minn. 1980). Moreover, finding a fair rate of return on common equity is a judicial, rather than a quasi-legislative determination.

Minnesota Power and Light Co. v. Public Service Commission, 310 $\,$ N.W.2d $\,$ 686 $\,$ (Minn. 1981).

The Administrative Law Judge considered the testimony of five expert witnesses in determining an appropriate rate of return on common equity for the Utility (Dennis Emmen, Daniel Rudakas and Dr. Jerome Hass for OTP, Dr.

Luther Thompson for the DPS and Derick Dahlen for SUP). The strongest

consideration was given to evidence presented by witnesses $\mbox{\sc Hass}$ and $\mbox{\sc Thompson},$

because they relied on DCF analysis and did not incorporate the "total return"

method. The Comm! ss I on has histori c ially appl ied DCF analysi s to determ i ne $% \left(1\right) =\left(1\right) +\left(1\right)$

appropriate cost of equity for a regulated utility.

The Administr at ive Law Judge be I! eve s t hat the data used by $\mbox{Or.}$ Hass in

application of DCF methodology is the most reliable presented in this case.

His analysis incorporates data from time periods which are sufficiently current as to reflect current t rend s , whi I e long en Dugh so as to mi ti gate the

effects of short term aberrations. As stated by Hass in his direct testimony,

the Commi ss ion has repe ated I y employed a twe lve-month $% \left(1\right) =\left(1\right) +\left(1\right)$

t he DCF mode I as a t i me period suf f i c i e n t I y long to dampen t he effec t s of

short term aberrations in the market. But in a period of decl ining interest

rates, as recently experienced, a shorter averaging period may be more appropriate. On the other hand, there is virtue in having the Commission being consistent over time--it would be unfair to a company to use a three-month average when yields are falling but an eighteenmonth average when

they are rising. Such biased averaging would ensure that investors would fail

to earn the true cost of common equity over the entire cycle. Recognizing

both the Commission's precedent and recent trends in the market, $\ensuremath{\mathsf{Hass}}$ used the

most recent twelve-month and six-month dividend yields in his testimony. See OTP Exhibit 30, p. S.

In his subsequent testimony, Dr. Hass allowed for the fact of a drop in

the median dividend yield for the electric utility industry between the time of his initial testimony and the filing of his rebuttal. See OTP Exhibit 32,

p. 2. The Administrative Law Judge believes that Hass's adjustment on rebuttal, which resulted in a more than 100 basis-point downward adjustment in

his recommendation for determination of the "y" factor, was appropriate and added to the witness's credibility.

The Judge also agrees with Hass's choice of comparable companies whose data was used in the DCF calculations. The Administrative Law Judge is

persuaded that the comparable group used by Dr. Thompson is not as reflective of Otter Tail Power's risk situation as that chosen by Dr. Hass because OTP is smaller than several of the companies used in Thompson's analysis. Dr. Hass's testimony that risk is related to size leads to a conclusion that the Company has a somewhat larger cost of common equity than the average for the group of companies chosen by Dr. Thompson. The Administrative Law Judge agrees with Hass's conclusion that, therefore, Thompson's recommended allowed rate of return is too low.

It is appropriate to adopt the high ends of Dr. Hass's finally-recommended yield and growth ranges (7.41 percent and five percent, respectively) because investments in the "comparable" group of utilities chosen by Dr. Hass bear somewhat less risk than investments in OTP. See OTP Exhibit 32, p. 7.

The Administrative Law Judge is also persuaded by Dr. Hass's reasoning in rejecting the 11.43 percent cost of equity recommendation made by Superwood, et al. witness Dahlen. While FERC's benchmark uncapped cost of common equity determination is informative, the very fact that it is a "benchmark" means that its applicability to OTP depends on whether the Company's risks place it with the median firm in the FERC sample. As pointed out by Dr. Hass, Otter Tail is, in many respects, an average utility (A+ bond rating. similar cash

flow coverage of dividends, no nuclear power and a comparable present capital

structure). However, Otter Tail is much smaller than the typical utility. That fact, and the character of its service territory (largely agricultural-based with lower prospects for economic growth and prosperity),

make an investment in OTP more risky than one in a typical utility, Therefore, a somewhat larger cost of common equity is appropriate.

add i ti on, the FE RC benchmark bases its yi e Id component ca lcu Iation on a

s i x-month ave rage, as compared to the twelve-month averaging process gene r a II y used by the Commission.

Witnesses Emmen and Rudakas found DCF analys is usef ul but stressed t hat it

should not be relied upon as the sole method for determining cost of equity be c au se, whi I e mathemati ca II y precise, in fact it involves a great dea I of

judgment. They believe a "total return" method reflecting investor expectations of future returns in addition to dividends should be considered.

Emmen testified that OTP's high productivity ranking, rate stability for five $% \left(\frac{1}{2}\right) =\left(\frac{1}{2}\right) +\left(\frac$

years, operating availability of plants and excellent service all indicate good management and justify a positive adjustment to the "bare bones" market

cost of capital. Rudakas urges consideration of the fact that investors are

expecting a total return higher than the stream of dividend income which $\ensuremath{\mathsf{DCF}}$

analysis examines. That return includes an expectati on that smaller uti I i ti es

 $\mbox{\ensuremath{\text{may}}}$ be taken over $\mbox{\ensuremath{\text{by}}}$ larger ones, which encourages investors to value the

stock of the alleged takeover candidates at a premium. Rudakas and Emmen

argue that investor expectations for a total return in excess of the stream of

dividends resu Its in an art if icially-reduced dividend yi e Id that is used in

DCF formulae. While such arguments are persuasive, they should not be controlling. It has been recommended that the Commission continue using DCF $\,$

analysis to determine appropriate cost of equity. And, for reasons outlined

above, the Administrative Law Judge believes that the DCF analysis performed

by Otter Tai I witness Jerome Hass shou Id be given the greatest weight in the $\,$

Commission's deliberations.

Cost-of Capital Summary

127. Otter Tail Power Company's appropriate test year overall rate of

return is 10.24 percent, calculated as follows:

		Percentage	Cost	Weighted
Average				
	Long Term Debt	44.04	8.70%	3.83%
	Preferred Stock	10.17	7.16	.73
	Common Equity	45.79	12.41	5.68
	Cost of Capital			
	(Overall Rate of Return)			10.24%

Revenue Deficiency

128. As a consequence of the foregoing Findings regarding rate base, test year operating income and cost of capital, Otter Tail Company's test year revenue deficiency is \$8,119,269, calculated as follows:

	Rate Base	\$ 176,172,171
	Rate of Return	10.24%
	Required Operating Income	18,040,030
	Test Year Operating Income	14,181,7
5	3	
	Income Deficiency	3,858,277
	(Uncontested) Gross Revenue	
	Conversion Factor	2.104377
	Revenue Deficiency	\$ 8,119,2
6	9	

i n its final submission, OTP sought a revenue deficiency of \$11,873,038 (a 15.1 percent overall increase in rates). In its initial filing, the Company sought a \$13 831,243 increase (17.6 percent). The revenue deficiency recommended above of \$8,119,269 would grant the Company a 10.3 percent overall increase in rates.

Conccepts to Govern

128. It is the intention of the Administrative Law judge that the concepts set forth in the Findings herein should govern the mathematical and computations aspects of the Findings. Any mathematical or computational errors are unintentional and should be corrected to conform to the concepts expressed in -he Findings.

Dated this day of March, 1987.

RICHARD C. LUIS
Administrative Law judge

Reported: Harold M. Reiner, Allan J. Thiry, Lynn M. Peters, and Barbara J. Nelson, Court Reporters Transcripts Prepared